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(54) GRANULAR CALCIUM PHOSPHATE CEMENT AND PRODUCTION THEREOF

(57)Abstract:

PURPOSE: To easily produce granular calcium phosphate cement which is capable of being easily filled into a bone defective part having an arbitrary shape, a bone gap part, a bone absorption part and furthermore an extracted tooth recess and is very available for transport of nutrition and formation of a newly formed bone because granular calcium phosphate cement is early converted into apatite after hardening and the whole filler is hardened into a block-shape having gaps and moreover is excellent in maintenance of an initial shape after surgery and almost free from the possibilities of leak from the filled part and shortens a time necessary for cure.

CONSTITUTION: Granular calcium phosphate cement is constituted of powder wherein calcium quaternary phosphate and calcium primary phosphate and/or calcium secondary phosphate are mixed at the rate of 1.3-1.90 molar ratio of Ca and P as a main component. The shortest diameter of this powder is regulated to 0.1-1.0mm.

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